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(30) Priority:	(71) Applicant: HITACHI METALS mitsubishi MOTC
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(54) CASTING AXLE BEAM

(57) Abstract:

PROBLEM TO BE SOLVED: To effectively strengthen and lighten an axle beam by forming the beam to be entirely hollow in the direction of vehicle width, and providing a reinforcing part in the hollow part of a spring mounting section or in the hollow part between a spring mounting section and a kingpin boss.

SOLUTION: This axle beam is formed by a sand-mold casting, and each of an intermediate section 2, a spring mounting section 3, and an arm section 5 is equipped with a hollow construction whose cross section is substantially rectangular, the hollow part of the arm section 5 is communicated with a kingpin hole 6, and the wide flange which extends to the fore-and-aft direction of the vehicle is formed on each top of the intermediate section 2, the spring mounting section 3, and the arm section 5. A bulkhead 11 which blocks a hollow 10 in the vehicle-width direction is formed in the hollow 10 of the spring mounting

section 3, and lower and upper ribs 13 are projected at the spring mounting section 3 side of the hollow section 12 in the arm section 5. A hollow structure whose cross section is substantially rectangular is formed entirely in the intermediate section 2, the spring mounting section 3, and the arm section 5, and therefore, the weight can be lightened more effectively and easily.

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